Abstract of the Disclosure

GRAPHICAL USER INTERFACE METHOD AND APPARATUS FOR INTERACTION WITH FINITE ELEMENT ANALYSIS APPLICATIONS

Designing engineering models using finite element analysis applications often involves the knowledge and memorization of numerous commands and codes to efficiently draw and analyze engineering models. If not done accurately, or if not done in a time efficient manner, unacceptable loss can occur because production deadlines are delayed or not met altogether, for example. The graphical user interface method and apparatus for interaction with finite element analysis applications represented in various embodiments makes use of the computer and finite element analysis applications very effective. The graphical user interface is based upon child windows with well-defined characteristics which allow a user to create, modify, and manipulation drawings in an efficient and timely manner. By being able to utilize these well-defined and organized characteristics, the user does not require significant training to know how to create, modify, or manipulate an engineering design model nor particular knowledge of specific commands or controls of all the various commands and controls in a typical finite element analysis application thereby allowing for an effective manner of interacting with the computer and finite element analysis software by improved ergonomic, aesthetic, and instinctive control of the graphical user interface.